## Systems Engineering Simulator (SES) Simulator Request Worksheet

**Purpose:** The purpose of this questionnaire is to provide the customer with a means of identifying essential elements required to generate a cost and schedule estimate. Please return this form to Mike McFarlane, SES Laboratory Manager, michael.r.mcfarlane@nasa.gov

1.	Study	Name:
1.	Oluuv	ivallic.

2.	Mission	Designation	(if	app	olicable	):
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## 3. Dates:

- a. Expected study start date:
- b. Expected study end date:
- c. Expected product delivery date:
- d. List other milestones, blackouts, or date requirements:

## 4. Contact Information:

Primary POC Name	Phone	E-mail Address
Company/A	gency	Role/Title
Name	Phone	E-mail Address
Namo	THORIO	E man / darooc
Company/A	gency	Role/Title
Name	Phone	E-mail Address
Company/A	gency	Role/Title
Name	Phone	E-mail Address
Company/Agency		Role/Title

	Task	Comments/Notes
	Data Recording/Collection	
	Data Processing	
	Data Analysis	
	Test Conductor	
	Test Subjects	
	Simulation Model Development	
	Simulation Integration	
	Hardware Fabrication	
	Hardware Integration w/ Facility	
	Simulation Input Data	
<ul> <li>6. Study Overview</li> <li>Give detailed description of scenario(s) to be simulated. Please include the following inform <ul> <li>a. Active vehicle(s) in scenario</li> <li>b. Active systems on vehicles (e.g., control systems, sensors)</li> <li>c. Contact surfaces to be modeled</li> <li>d. Environment (e.g., Earth atmosphere, lunar surface, Mars orbit)</li> <li>e. Any other information</li> </ul> </li> </ul>		

special or enhanced models required for the study?			
Does the study require human-in-the-loop interaction?   Yes  No			
If so, do test subjects need to be astronauts?   Yes  No			
Does the study require hardware-in-the-loop interaction?   Yes   No			
Operations to be performed (select all that apply):  a.			
Relevant Procedures and Reference Information:  a. List any available relevant procedures and/or test plans:			
<ul> <li>i.  Available online at:</li> <li>ii. Will provide electronic copy of preliminary/unpublished procedures/test plans.</li> </ul>			
<ul> <li>b. Are there any applicable materials or information, such as CAD drawings or dimensions, that would be useful in setting up hardware or software for this study?</li> <li>i.  Available online at:</li> <li>ii.  Will provide electronic copy.</li> </ul>			
c. Do you have requirements documents from another facility or study that might be helpful in setting up this scenario? ☐ Yes ☐ No			
If so, can you provide the SES with a copy? ☐ Yes ☐ No			

7.	Cockpits To be Used (select all that apply):	
	SES existing cockpits:  a.	
	Customer-provided cockpits/hardware (Describe below. Please provide each provided component.):	e expected delivery date for
	New Cockpits/hardware to be fabricated by the SES: (Describe below.)	)
8.	Simulation Information:	
	Do you plan to provide a simulation for use in the SES facility? $\ \square$ Yes	□ No
	a. If yes, please describe the simulation and how it will interface with	the SES facility:
	b. Please provide the expected delivery date of the simulation(s):	
	Do you plan to provide simulation models to be integrated into an existin $\square$ Yes $\square$ No	ng SES simulation?
	If yes, please specify the types of models and expected delivery date for	or each model:
	Types	Delivery Date

Or you require a Dome visual system? Yes No Do you have a preference for a graphics rendering program (If yes, please specify.)? Yes   Will you need new graphics models implemented into the scenes for your study? Yes No If yes, please answer the following:  a. Will you be supplying the graphics models or do you need them to be developed?  b. If you will be supplying graphics models or any data required for the SES to build graphics models, please specify the expected delivery date for each delivered item:  Do you have any special graphics requirements (e.g., overlays, animations)?	-	u plan to use an existing SES simulation, and have a preference on the simulation revision use se specify here:
Do you require a Dome visual system? Yes No  Do you have a preference for a graphics rendering program (If yes, please specify.)? Yes   Will you need new graphics models implemented into the scenes for your study? Yes No  If yes, please answer the following:  a. Will you be supplying the graphics models or do you need them to be developed?  b. If you will be supplying graphics models or any data required for the SES to build graphics models, please specify the expected delivery date for each delivered item:		
Do you have a preference for a graphics rendering program (If yes, please specify.)?   Yes  Will you need new graphics models implemented into the scenes for your study?   Yes  No  If yes, please answer the following:  a. Will you be supplying the graphics models or do you need them to be developed?  b. If you will be supplying graphics models or any data required for the SES to build graphics models, please specify the expected delivery date for each delivered item:	Gra	phics/Scenes Information:
Will you need new graphics models implemented into the scenes for your study?   Yes No If yes, please answer the following:  a. Will you be supplying the graphics models or do you need them to be developed?  b. If you will be supplying graphics models or any data required for the SES to build graphics models, please specify the expected delivery date for each delivered item:	Do y	ou require a Dome visual system?   Yes   No
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10.5	Special Hardware and S	oftware setup required:				
	<ul> <li>Use Existing (No special hardware or software needed.)</li> <li>Use information from previous study/mission:</li> <li>Use information specified in table below:</li> </ul>					
F	lardware Information					
a.	Special Hardware	To Be Supplied By	Usage Limitations*	Need Date		
	To Be Installed By	Version/Description	Comments/Installation Location	Permanent or Returned to Supplier		
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b.	Special Hardware	To Be Supplied By	Usage Limitations*	Need Date		
	To Be Installed By	Version/Description	Comments/Installation Location	Permanent or Returned to Supplier		
C.	Special Hardware	To Be Supplied By	Usage Limitations*	Need Date		
			-			
	To Be Installed By	Version/Description	Comments/Installation Location	Permanent or Returned to Supplier		
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d.	Special Hardware	To Be Supplied By	Usage Limitations*	Need Date		
	To Be Installed By	Version/Description	Comments/Installation Location	Permanent or Returned to Supplier		

## Software Information

a	Special Software	To Be Supplied By	Usage Limitations*	Need Date
	To Be Installed By	Version/Description	Comments/Installation Location	Permanent or Removed
			Location	Removed
). <u> </u>	Special Hardware	To Be Supplied By	Usage Limitations*	Need Date
	To Be Installed By	Version/Description	Comments/Installation Location	Permanent or Returned to Supplier
<u> </u>	Special Hardware	To Be Supplied By	Usage Limitations*	Need Date
	To Be Installed By	Version/Description	Comments/Installation Location	Permanent or Returned to Supplier
l	Special Hardware	To Be Supplied By	Usage Limitations*	Need Date
	To Be Installed By	Version/Description	Comments/Installation Location	Permanent or Returned to Supplier
*1	leage limitations — le coffu	vare/hardware proprietary: o	an it be used by others or for	demonstrations?

a. Operating System Version: b. CPU: c. Video Card (s): d. RAM: e. Disk Space: f. Other:  12. Required Products Recorded sim data (specify approximate number of parameters and recording frequency):  Tables (specify format):  Plots (specify format):  Reports (specify scope of expected reports):  Scene/graphics capture (specify format and frame rate):  Video recording:	11. Special Hardware / Software Minimum Specifications (Describe all that apply):
c. Video Card (s): d. RAM: e. Disk Space: f. Other:  12. Required Products  Recorded sim data (specify approximate number of parameters and recording frequency):  Tables (specify format):  Plots (specify format):  Reports (specify scope of expected reports):  Scene/graphics capture (specify format and frame rate):	
d. RAM: e. Disk Space: f. Other:  12. Required Products  Recorded sim data (specify approximate number of parameters and recording frequency):  Tables (specify format):  Plots (specify format):  Reports (specify scope of expected reports):  Scene/graphics capture (specify format and frame rate):  Video recording:	
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Scene/graphics capture (specify format and frame rate):  Uideo recording:	
☐ Video recording:	Reports (specify scope of expected reports):
☐ Video recording:	
	Scene/graphics capture (specify format and frame rate):
Audio recording:	☐ Video recording:
Audio recording:	
	Audio recording:

13.	Additional Requirements/ Comments: